



(19)

(11) Publication number:

07308197 A

Generated Document.

PATENT ABSTRACTS OF JAPAN

(21) Application number: **06104212**

(51) Intl. Cl.: **C12P 17/02**

(22) Application date: **18.05.94**

(30) Priority:

(43) Date of application
publication: **28.11.95**

(84) Designated contracting
states:

(71) Applicant: **mitsui petrochem ind ltd**

(72) Inventor: **yukimune takahito
hara yasuihiro**

(74) Representative:

(54) PRODUCTION OF TAXANE TYPE DITERPENE

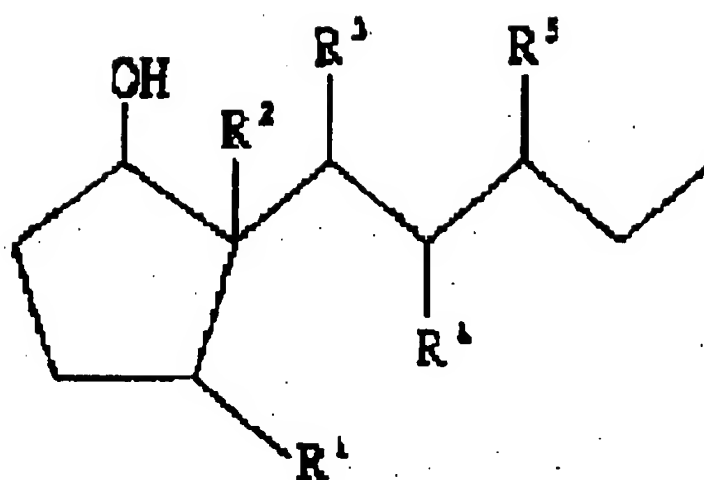
(57) Abstract:

PURPOSE: To industrially and advantageously obtain the subject compound useful as a therapeutic agent for ovarian carcinoma, mastocarcinoma, lung cancer, etc., by culturing a cell or a tissue of a plant capable of producing a taxane type terpene in the presence of a specific jasmonic acid and recovering a formed product from the culture mixture.

CONSTITUTION: A cell or a tissue of a plant (e.g. *Taxus baccata*) capable of producing taxane type terpene is cultured in the presence of a jasmonic acid of formula I {R1 is a 1-4C alkyl, a group of formula II [R6 is OH, an OM (M is an alkali metal, an alkaline earth metal or NH4), an NHR7 (R7 is a 1-4C acyl, a 1-4C alkyl or amino acid) or an OR8 (R8 is a 1-4C alkyl or a hydrocarbon residue; (n) is an integer of 1-7)]; R2 to R5 are each H or R2 and R3, R3 and R4 or R4 and R5 may form a double bond together; the five-membered ring may be further substituted with a hydroxyl group and may form a double bond between adjoining carbon atoms} and a

Formed product is recovered to give
the abjective taxane type terpene (e.g.
taxol).

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HARA YASUHIRO;**Assignee: **mitsui petrochem ind ltd**
[News, Profiles, Stocks and More about this company](#)Published / Filed: **Nov. 28, 1995 / May 18, 1994**Application
Number: **JP1994000104212**IPC Code: **C12P 17/02; C12P 17/02;**Priority Number: **May 18, 1994 JP1994000104212**

Abstract:



PURPOSE: To industrially and advantageously obtain the subject compound useful as a therapeutic agent for ovarian carcinoma, mastocarcinoma, lung cancer, etc., by culturing a cell or a tissue of a plant capable of producing a taxane type terpene in the presence of a specific jasmonic acid and recovering a formed product from the culture mixture.

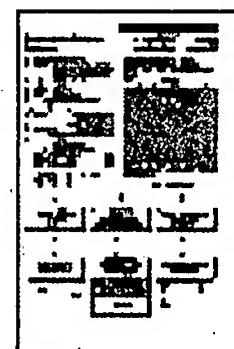
CONSTITUTION: A cell or a tissue of a plant (e.g. *Taxus baccata*) capable of producing taxane type terpene is cultured in the presence of a jasmonic acid of formula I. {R1 is a 1-4C alkyl; a group of formula II [R6 is OH, an OM (M is an alkali metal, an alkaline earth metal or NH4), an NHR7 (R7 is a 1-4C acyl, a 1-4C alkyl or amino acid) or an OR8 (R8 is a 1-4C alkyl or a hydrocarbon residue; (n) is an integer of 1-7); R2 to R5 are each H or R2 and R3, R3 and R4 or R4 and R5 may form a double bond together; the five-membered ring may be further substituted with a hydroxyl group and may form a double bond between adjoining carbon atoms} and a formed product is recovered to give the abjective taxane type terpene (e.g. taxol).

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Designated
Country: **CA CN EP KR US DE FR GB IT NL**




Family:

PDF	Publication	Pub. Date	Filed	Title
	WO9514103A1	May 26, 1995	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTRED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
	US20020012976A1	Jan. 31, 2002	April 28, 1999	METHOD OF PRODUCING A TAXANE-TYPE DITERPENE AND A METHOD OF OBTAINING CULTURED CELLS WHICH PRODUCE THE TAXANE-TYPE DILTERPENE AT A HIGH RATE

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	US6403343	June 11, 2002		
	US6403343	June 11, 2002	April 28, 1999	Method of producing a taxane-type diterpene and a method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
	US5968789	Oct. 19, 1999	Feb. 28, 1997	Method of producing a taxane-type diterpene and a method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
	US5637484	June 10, 1997	July 14, 1995	Method of producing a taxane-type diterpene and a method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
	KR0172606B1	Feb. 1, 1999	July 5, 1995	PROCESS FOR PRODUCING TAXANE DITERPENE
	KR0169081B1	Jan. 15, 1999	June 18, 1998	METHOD OF HARVESTING CULTURED CELLS CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
	KR0169080B1	Jan. 15, 1999	June 18, 1998	PROCESS FOR PRODUCING TAXANE DITERPENE
	KR0169079B1	Jan. 15, 1999	June 18, 1998	PROCESS FOR PRODUCING TAXANE DITERPENE
	JP8116981A2	May 14, 1996	Oct. 18, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE
	JP8056681A2	March 5, 1996	Aug. 25, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE
	JP8056680A2	March 5, 1996	Aug. 25, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE
	JP8033490A2	Feb. 6, 1996	March 7, 1995	PRODUCTION OF TAXANE-TYPE DITERPENE
	JP8009983A2	Jan. 16, 1996	June 28, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE
	JP7308197A2	Nov. 28, 1995	May 18, 1994	PRODUCTION OF TAXANE TYPE DITERPENE
	JP7308196A2	Nov. 28, 1995	May 18, 1994	PRODUCTION OF TAXANE TYPE DITERPENE
	JP7135967A2	May 30, 1995	Nov. 15, 1993	PREPARATION OF CULTURED CELL HAVING HIGH PRODUCTIVITY OF TAXANE-TYPE DITERPENE
	JP2967034B2	Oct. 25, 1999		
	EP1063300A3	Jan. 2, 2002	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
	EP1063300A2	Dec. 27, 2000	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
	EP1063299A3	Jan. 2, 2002	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
	EP1063299A2	Dec. 27, 2000	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
	EP1054065B1	July 31, 2002	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate

	<u>EP1054065A1</u>	Nov. 22, 2000	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
	<u>EP0683232B1</u>	Feb. 14, 2001	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTURED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
	<u>EP0683232A4</u>	Nov. 29, 1995	Nov. 9, 1994	
	<u>EP0683232A1</u>	Nov. 22, 1995	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTURED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
	<u>DE69431135C0</u>	Sept. 5, 2002	Nov. 9, 1994	METHODE ZUR HERSTELLUNG VON TAXAN-TYP DITERPEN UND METHODE ZUR GEWINNUNG VON KULTURZELLEN DIE TAXAN-TYP DITERPEN IN HOHEN AUSBEUTEN HERSTELLEN
	<u>DE69426692T2</u>	June 21, 2001	Nov. 9, 1994	METHODE ZUR HERSTELLUNG VON TAXAN-DITERPEN UND METHODE ZUM EINTEN VON KULTURZELLEN, DIE TAXAN-DITERPEN IN HOHEN AUSBEUTEN HERSTELLEN
	<u>DE69426692C0</u>	March 22, 2001	Nov. 9, 1994	METHODE ZUR HERSTELLUNG VON TAXAN-DITERPEN UND METHODE ZUM EINTEN VON KULTURZELLEN, DIE TAXAN-DITERPEN IN HOHEN AUSBEUTEN HERSTELLEN
	<u>CN1251391A</u>	April 26, 2000	June 30, 1999	METHOD FOR OBTAINING HIGH-PRODUCTIVE CULTURE CELLS OF TAXANES DITERPENE
	<u>CN1248630A</u>	March 29, 2000	June 30, 1999	PROCESS FOR PRODUCING TAXUS ALKANE DITERPENE
	<u>CN1248629A</u>	March 29, 2000	June 30, 1999	PROCESS FOR PRODUCING TAXUS ALKANE DITERPENE
	<u>CN1119028A</u>	March 20, 1996	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTURED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
	<u>CN1083012B</u>	April 17, 2002	June 30, 1999	PROCESS FOR PRODUCING TAXANES DITERPENE
	<u>CN1083011B</u>	April 17, 2002	June 30, 1999	METHOD FOR OBTAINING HIGH-PRODUCTION CULTURE CELLS OF TAXANES DITERPENE
	<u>CN1083010B</u>	April 17, 2002	June 30, 1999	PROCESS FOR PRODUCING TAXUS ALKANE DITERPENE
	<u>CN1058054B</u>	Nov. 1, 2000	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTURED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
	<u>CA2153986AA</u>	May 26, 1995	Nov. 9, 1994	A METHOD OF PRODUCING A TAXANE-TYPE DITERPENE AND A METHOD OF OBTAINING CULTURED CELLS WHICH PRODUCE THE TAXANE-TYPE DITERPENE AT A HIGH RATE
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